EN User manual

Dishwasher

USER MANUAL

ZANUSSI

ZDF 2010

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Subject to change without notice.

Safety instructions

Before the installation and use of the appliance, carefully read the supplied instructions. The manufacturer is not responsible if an incorrect installation and use causes injuries and damages. Always keep the instructions with the appliance for future reference.

Children and vulnerable people safety

Warning! Risk of suffocation, injury or permanent disability.

- Do not let persons, children included, with reduced physical sensory, reduced mental functions or lack of experience and knowledge use the appliance. They must have supervision or instruction for the operation of the appliance by a person who is responsible for their safety. Do not let children play with the appliance.
- Keep all packaging away from children.
- Keep all detergents away from children.
- Keep children and pets away from the appliance door when it is open.

Installation

- Remove all the packaging.
- Do not install or use a damaged appliance.
- Do not install or use the appliance where the temperature is less than 0 °C.
- Obey the installation instruction supplied with the appliance.

Water connection

- Make sure not to cause damage to the water hoses.
- The appliance is to be connected to the water mains using the new supplied hose-sets. Old hose sets must not be reused.
- Before you connect the appliance to new pipes or pipes not used for a long time, let the water flow until it is clean.
- The first time you use the appliance, make sure that there is no leakage.

Electrical connection

Warning! Risk of fire and electrical shock.

- The appliance must be earthed.
- Make sure that the electrical information on the rating plate agrees with the power supply. If not, contact an electrician.
- Always use a correctly installed shockproof socket.
- Do not use multi-plug adapters and extension cables.
- Make sure not to cause damage to the mains plug and to the mains cable. Contact the Service or an electrician to change a damaged mains cable.
- Connect the mains plug to the mains socket only at the end of the installation. Make sure that there is access to the mains plug after the installation.
- Do not pull the mains cable to disconnect the appliance. Always pull the mains plug.

Use

- This appliance is intended to be used in household and similar applications such as:
  - Staff kitchen areas in shops, offices and other working environments

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– Farm houses
– By clients in hotels, motels and other residential type environments
– Bed and breakfast type environments.

⚠ **Warning!** Risk of injury.

- Do not change the specification of this appliance.
- Put knives and cutlery with sharp points in the cutlery basket with the points down or in a horizontal position.
- Do not keep the appliance door open without supervision to prevent to fall on it.
- Do not sit or stand on the open door.
- Dishwasher detergents are dangerous. Obey the safety instructions on the detergent packaging.
- Do not drink and play with the water in the appliance.
- Do not remove the dishes from the appliance until the programme is completed. There can be detergent on the dishes.

⚠ **Warning!** Risk of electrical shock, fire or burns.

- Do not put flammable products or items that are wet with flammable products in, near or on the appliance.
- Do not use water spray and steam to clean the appliance.
- The appliance can release hot steam if you open the door while a programme operates.

Disposal

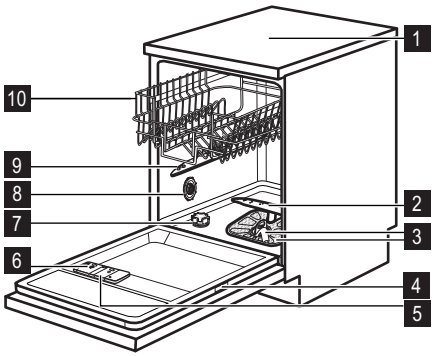
⚠ **Warning!** Risk of injury or suffocation.

- Disconnect the appliance from the mains supply.
- Cut off the mains cable and dispose of it.
- Remove the door catch to prevent children and pets to get closed in the appliance.

Customer Care and Service

Contact the Service to repair the appliance. We recommend only the use of original spare parts.
When you contact the Service, ensure that you have the following information that is available on the rating plate.
Model :
PNC :
Serial Number :

Product description



1 Worktop
2 Lower spray arm
3 Filters
4 Rating plate
5 Rinse aid dispenser
6 Detergent dispenser
7 Salt container
8 Water hardness dial
9 Upper spray arm
10 Upper basket

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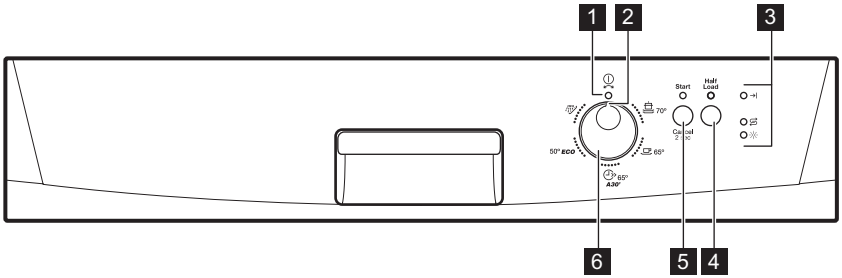
Control panel



1 On/off indicator
2 Programme marker
3 Indicators
4 Half load button
5 Start button
6 Programme knob

Indicators	Description
→|	End indicator.
	Salt indicator. This indicator is off while the programme operates.
	Rinse aid indicator. This indicator is off while the programme operates.

Programmes

Programme	Degree of soil Type of load	Programme phases	Options
	Heavy soil Crockery, cutlery, pots and pans	Prewash Wash 70 °C Rinses Dry	Half-load
	Normal soil Crockery and cutlery	Prewash Wash 65 °C Rinses Dry	Half-load
1)	Fresh soil Crockery and cutlery	Wash 65 °C Rinse	
ECO 2)	Normal soil Crockery and cutlery	Prewash Wash 50 °C Rinses Dry	Half-load

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Programme	Degree of soil Type of load	Programme phases	Options
3)	All	Prewash	

1) With this programme you can wash a load with fresh soil. It gives good washing results in a short time.
2) This is the standard programme for test institutes. With this programme you have the most efficient use of water and energy consumption for crockery and cutlery with normal soil.
3) Use this programme to quickly rinse the dishes. This prevents the remaining food to bond on the dishes and bad odours to come out from the appliance.
Do not use detergent with this programme.

Programme 1)	Duration (min)	Energy (kWh)	Water (l)
	85 - 95	1.8 - 2.0	22 - 25
	100 - 110	1.4 - 1.6	19 - 21
	30	0.9	9
ECO	130 - 140	1.0 - 1.2	14 - 16
	12	0.1	4

1) The pressure and the temperature of the water, the variations of the mains supply, the options and the quantity of dishes can change the programme duration and the consumption values.

Information for test institutes
For all the necessary information for test performance. send an email to:
info.test@dishwasher-production.com
Write down the product number (PNC) that is on the rating plate.

Options

Half Load

Activate or deactivate the function before the start of a programme. You cannot activate or deactivate this function while a programme operates.

Set this function when you want to wash a small quantity of tableware and cookware. The function decreases the programme duration and the consumption of energy and water. Load the upper basket and the lower basket and decrease the quantity of detergent.

Before first use

1. Make sure that the set level of the water softener agrees with the water hardness in your area. If not, adjust the water softener. Contact your local water authority to know the water hardness in your area.
2. Fill the salt container.
3. Fill the rinse aid dispenser.
4. Open the water tap.
5. Processing residues can stay in the appliance. Start a programme to remove them. Do not use detergent and do not load the baskets.

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Adjusting the water softener

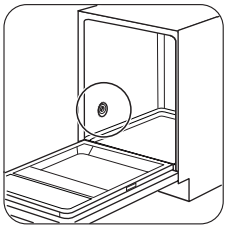
Hard water contains a high quantity of minerals that can cause damage to the appliance and bad washing results. The water softener neutralises these minerals.
The dishwasher salt keeps the water softener clean and in good conditions. Refer to the table to adjust the water softener to the right level. It makes sure that the water softener uses the correct quantity of dishwasher salt and water.

You must adjust the water softener manually and electronically.

Water hardness				Water softener adjustment	
German degrees (°dH)	French degrees (°fH)	mmol/l	Clarke degrees	Manual	Electronic
51 - 70	91 - 125	9.1 - 12.5	64 - 88	2 **1)**	10
43 - 50	76 - 90	7.6 - 9.0	53 - 63	2 **1)**	9
37 - 42	65 - 75	6.5 - 7.5	46 - 52	2 **1)**	8
29 - 36	51 - 64	5.1 - 6.4	36 - 45	2 **1)**	7
23 - 28	40 - 50	4.0 - 5.0	28 - 35	2 **1)**	6
19 - 22	33 - 39	3.3 - 3.9	23 - 27	2 **1)**	5 **1)**
15 - 18	26 - 32	2.6 - 3.2	18 - 22	1	4
11 - 14	19 - 25	1.9 - 2.5	13 - 17	1	3
4 - 10	7 - 18	0.7 - 1.8	5 - 12	1	2
< 4	< 7	< 0.7	< 5	1 **2)**	1 **2)**

1) Factory position.
2) Do not use salt at this level.

Manual adjustment



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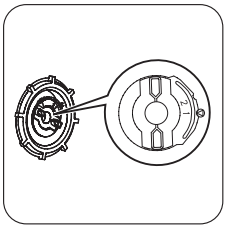

❷ Turn the water hardness dial to the position 1 or 2.

Electronic adjustment

1. Make sure that the programme marker on the programme knob is aligned with the on/off indicator.
2. Press and hold the start button. At the same time turn the programme knob clockwise until the programme marker is aligned with the first programme on the control panel.
3. Release the start button when the start indicator and the on/off indicator start to flash.
   - The end indicator flashes intermittently. The number of flashes shows the level of the water softener. Example: 5 flashes + pause + 5 flashes = level 5.
4. To adjust the level of the water softener, press the start button. Each time you press the start button you go to the next level.

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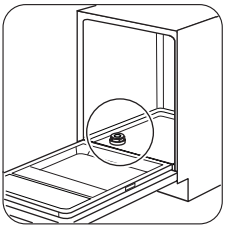
5. To confirm the setting, turn the programme knob until the programme marker is aligned with the on/off indicator.

Filling the salt container

Caution! Only use dishwasher salt. Other products can cause damage to the appliance.

Water and salt can come out from the salt container when you fill it. Risk of corrosion. To prevent it, after you fill the salt container, start a programme.



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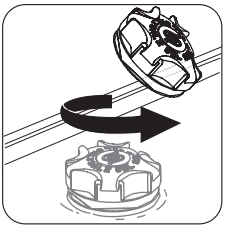

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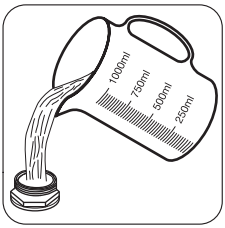
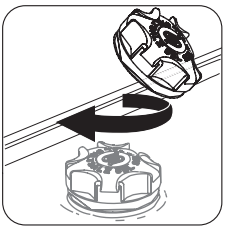


3

Put 1 litre of water in the salt container (only for the first time).

4

5



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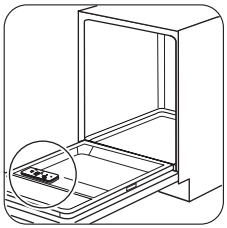
Filling the rinse aid dispenser

Caution! Only use rinse aid for dishwashers. Other products can cause damage to the appliance.

The rinse aid, during the last rinsing phase, helps to dry the dishes without streaks and stains.



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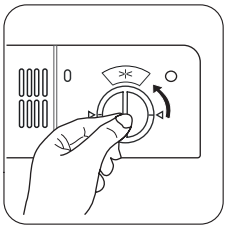

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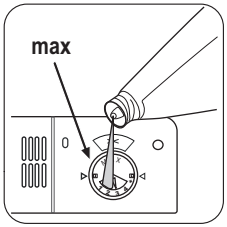

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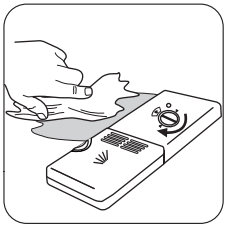

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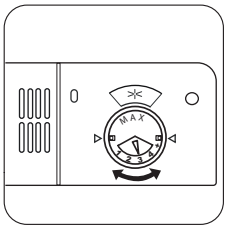

To adjust the released quantity of rinse aid, turn the selector between position 1 (lowest quantity) and position 4 (highest quantity).

Daily use

1. Open the water tap.

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2. Press the on/off button to activate the appliance. Make sure that the appliance is in setting mode. Refer to 'SETTING AND STARTING A PROGRAMME'.
   - If the salt indicator is on, fill the salt container.
   - If the rinse aid indicator is on, fill the rinse aid dispenser.
3. Load the baskets.
4. Add the detergent.
5. Set and start the correct programme for the type of load and soil.

Loading the baskets

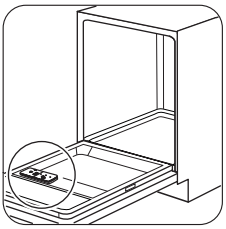
Refer to the supplied leaflet with examples of the load of the baskets.

- Only use the appliance to wash items that are dishwasher-safe.
- Do not put in the appliance items made of wood, horn, aluminium, pewter and copper.
- Do not put in the appliance items that can absorb water (sponges, household cloths).
- Remove remaining food from the items.
- Make soft the remaining burned food on the items.
- Put hollow items (cups, glasses and pans) with the opening down.
- Make sure that cutlery and dishes do not bond together. Mix spoons with other cutlery.
- Make sure that glasses do not touch other glasses.
- Put small items in the cutlery basket.
- Put light items in the upper basket. Make sure that the items do not move.
- Make sure that the spray arms can move freely before you start a programme.

Using the detergent

Caution! Use only detergents for dishwashers.

Do not use more than the correct quantity of detergent. Refer to the instructions on the detergent packaging.



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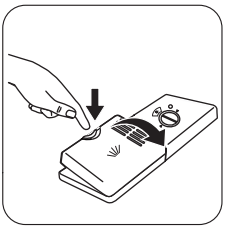

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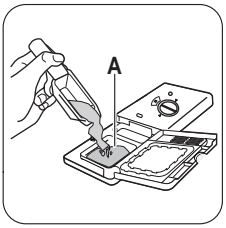
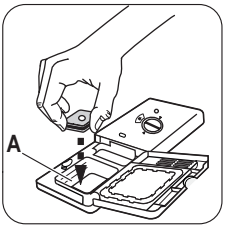
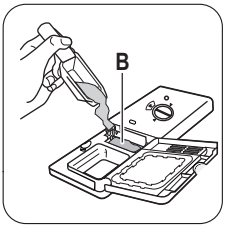


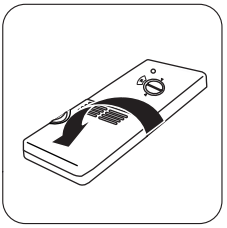


3

Put the detergent or the tablet in compartment (**A**).



If the programme has a prewash phase, put a small quantity of detergent in compartment (**B**).



4

Detergent tablets do not fully dissolve with short programmes and detergent residues can stay on the dishes.
We recommend that you use detergent tablets with long programmes.

Combi detergent tablets

These tablets contain detergent, rinse aid and other added agents. Be sure that these tablets are applicable to the water hardness in your area. Refer to the instructions on the packaging of the products.

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When you use tablets, that contain salt and rinse aid, do not fill the salt container and the rinse aid dispenser. The rinse aid indicator always comes on if the rinse aid dispenser is empty.

1. Adjust the water softener to the lowest level.
2. Set the rinse aid dispenser to the lowest position.

If you stop to use the combi detergent tablets, before you start to use separately detergent, rinse aid and dishwasher salt, do these steps:

1. Turn the programme knob until the programme marker is aligned with the shortest programme with a rinsing phase.
2. Set the water softener to the highest level.
3. Make sure that the salt container and the rinse aid dispenser are full.
4. Start the set programme, without detergent and without dishes.
5. Adjust the water softener to the water hardness in your area.
6. Adjust the released quantity of rinse aid.

Setting and starting a programme

Setting mode

The appliance must be in setting mode to start a programme.

- Turn the programme knob until the programme marker is aligned with a programme on the control panel. If the on/off indicator comes on, the appliance is in setting mode.
- Turn the programme knob until the programme marker is aligned with a programme on the control panel. If the on/off indicator and the start indicator come on, the appliance is not in setting mode.

To put the appliance in setting mode, press and hold the start button until the start indicator goes off .

Starting a programme

1. Open the water tap.
2. Close the appliance door.
3. Turn the programme knob until the programme marker is aligned with the programme you want to set. The on/off indicator comes on.
4. Press the start button, the programme starts. The start indicator comes on.

Opening the door while the appliance operates

If you open the door, the appliance stops. When you close the door, the appliance continues from the point of interruption.

Cancelling the programme

Press and hold the start button until the start indicator goes off .

Make sure that there is detergent in the detergent dispenser before you start a new programme.

At the end of the programme

When the programme is completed, the end indicator comes on.

1. Deactivate the appliance. Turn the programme knob until the programme marker is aligned with the on/off indicator.
2. Close the water tap.

- Let the dishes become cold before you remove them from the appliance. Hot dishes can be easily damaged.
- First remove the items from the lower basket, then from the upper basket.
- There can be water on the sides and on the door of the appliance. Stainless steel becomes cool more quickly than the dishes.

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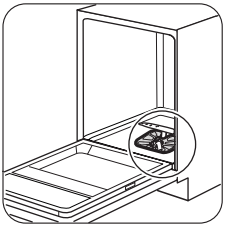
Care and cleaning

Warning! Before maintenance, deactivate the appliance and disconnect the mains plug from the mains socket.

Dirty filters and clogged spray arms decrease the washing results.
Make a check regularly and, if necessary, clean them.

Cleaning the filters



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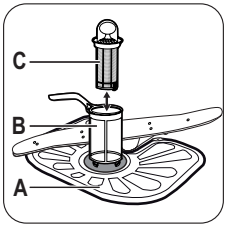

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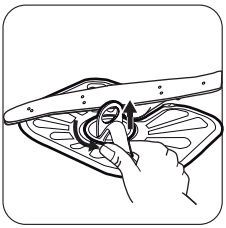
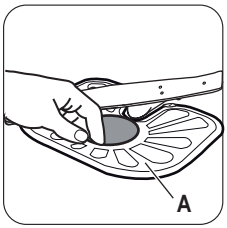


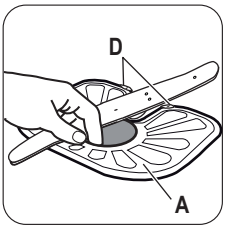
3

To remove filters (**B**) and (**C**), turn the handle counterclockwise and remove. Pull apart filter (**B**) and (**C**). Wash the filters with water.



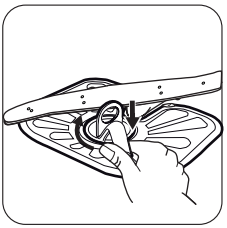
4

Remove filter (**A**). Wash the filter with water.



5

Put filter (**A**) to its initial position. Make sure that it assembles correctly under the two guides (**D**).



6

Assemble filters (**B**) and (**C**). Put them into position in filter (**A**). Turn the handle clockwise until it locks.

An incorrect position of the filters can cause bad washing results and damage to the appliance.

Cleaning the spray arms

Do not remove the spray arms.
If the holes in the spray arms are clogged, remove remaining parts of soil with a thin pointed object.

External cleaning

Clean the appliance with a moist soft cloth. Only use neutral detergents. Do not use abrasive products, abrasive cleaning pads or solvents.

Troubleshooting

The appliance does not start or it stops during operation.
Before you contact the Service, refer to the information that follows for a solution to the problem.

With some problems, different indicators flash continuously or intermittently at the same time to show an alarm code.

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Alarm code	Problem
▪ The start indicator flashes continuously. ▪ The end indicator flashes 1 time intermittently.	The appliance does not fill with water.
▪ The start indicator flashes continuously. ▪ The end indicator flashes 2 times intermittently.	The appliance does not drain the water.
▪ The start indicator flashes continuously. ▪ The end indicator flashes 3 times intermittently.	The anti-flood device is on.

⚠ **Warning!** Deactivate the appliance before you do the checks. Turn the programme knob until the programme marker is aligned with the on/off indicator.

Problem	Possible cause	Possible solution
The programme does not start.	The mains plug is not connected in the mains socket.	Connect the mains plug.
	The appliance door is open.	Close the appliance door.
	You did not press the start button.	Press the start button.
	The fuse in the fuse box is damaged.	Replace the fuse.
The appliance does not fill with water.	The water tap is closed.	Open the water tap.
	The water pressure is too low.	Contact your local water authority.
	The water tap is clogged or there is limescale on it.	Clean the water tap.
	The filter in the water inlet hose is clogged.	Clean the filter.
	The water inlet hose has a kink or a bend.	Make sure that the position of the hose is correct.
	The anti-flood device is on. There are water leakages in the appliance.	Close the water tap and contact the Service.
The appliance does not drain the water.	The sink spigot is clogged.	Clean the sink spigot.
	The water drain hose has a kink or a bend.	Make sure that the position of the hose is correct.

After the checks are completed, turn the programme knob until the programme marker is aligned with programme that was in operation when the problem occurred. The programme continues from the point of interruption.

If the problem occurs again, contact the Service.
If other alarm codes show, contact the Service.

The washing results and drying results are not satisfactory

Problem	Possible cause	Possible solution
The dishes are not clean.	The filters are clogged.	Clean the filters.

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Problem	Possible cause	Possible solution
	The filters are not correctly assembled and installed.	Make sure that the filters are correctly assembled and installed.
	The spray arms are clogged.	Remove remaining soil with a thin pointed object.
	The programme was not applicable for the type of load and soil.	Make sure that the programme is applicable for the type of load and soil.
	Incorrect position of the items in the baskets. Water could not wash all items.	Make sure that the position of the items in the baskets is correct and that the water can easily wash all items.
	The spray arms could not turn freely.	Make sure that the position of the items in the baskets is correct and does not cause the blockage of the spray arms.
	The quantity of detergent was not sufficient.	Make sure that you add the correct quantity of detergent in the dispenser before you start a programme.
	There was no detergent in the detergent dispenser.	Make sure that you add detergent in the dispenser before you start a programme.
Limescale particles on the dishes.	The salt container is empty.	Make sure that there is dishwasher salt in the salt container.
	The set level of the water softener is incorrect.	Make sure that the set level of the water softener agrees with the water hardness in your area.
	The cap of the salt container is loose.	Tighten the cap.
Whitish streaks and stains or bluish layers on glasses and dishes.	The released quantity of rinse aid is too much.	Decrease the released quantity of rinse aid .
	The quantity of detergent was too much.	Make sure that you add the correct quantity of detergent in the dispenser before you start a programme.
Dry water drop stains on glasses and dishes.	The released quantity of rinse aid was not sufficient .	Increase the released quantity of rinse aid.
	The quality of the detergent can be the cause.	Try a different brand of detergent.
The dishes are wet.	The programme had no drying phase.	Set a programme with the drying phase.
The dishes are wet and matt.	The rinse aid dispenser is empty.	Make sure that there is rinse aid in the rinse aid dispenser.
	The quality of the rinse aid can be the cause.	Try a different brand of rinse aid.

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Problem	Possible cause	Possible solution
	The quality of the combi detergent tablets can be the cause.	▪ Try a different brand of combi detergent tablets. ▪ Activate the rinse aid dispenser and use the rinse aid together with the combi detergent tablets.

Technical information

Dimensions	Width / Height / Depth (mm)	600 / 850 / 610
Electrical connection	Refer to the rating plate.	
	Voltage	220-240 V
	Frequency	50 Hz
Water supply pressure	Min. / max. (bar / MPa)	(0.5 / 0.05) / (8 / 0.8)
Water supply **1)**	Cold water or hot water**2)**	max. 60 °C
Capacity	Place settings	12
Power consumption	Left-on mode	0.99 W
	Off-mode	0.10 W

1) Connect the water inlet hose to a water tap with a 3/4" thread.
2) If the hot water comes from alternative sources of energy, (e.g. solar panels, aeolian energy), use the hot water supply to decrease energy consumption.

Environment concerns

The symbol on the product or on its packaging indicates that this product may not be treated as household waste. Instead it should be taken to the appropriate collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local council, your household waste disposal service or the shop where you purchased the product.

- Discard correctly the packaging material. Recycle the materials with the symbol .

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